

**Notice of Allowability**

Application No.

10/767,074

Examiner

Leonid Kravets

Applicant(s)

MINOWA, NOBUYUKI

Art Unit

2189

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 12/1/2005.
2. ☒ The allowed claim(s) is/are 1,3 and 5-35.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached \_\_\_\_\_
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>12/14/05</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                               | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carl Brundidge (Registration 29621) on 1/10/2006.

The application has been amended as follows:

Claim 1, Page 1, line 21:

a relay memory having one or more write information storage regions respectively corresponding to said one or more transmission sources or transmission destinations, and

Claim 1, Page 2, Line 3:

temporarily stored in one or more of said write information storage regions of said relay memory

Claim 5, Page 4, Line 2

According to claim [4] 1

Claim 6, Page 5 (Replace with the following)

The information processing device according to claim 1, wherein when temporarily storing the received write information in the target write information storage region corresponding to the transmission source or transmission destination of the relay memory, if the amount of information accumulated in said target write information storage region exceeds a first threshold value, a notification of exceeding the first threshold value, which indicates that this threshold value has been exceeded, is transmitted to a specified second device, and the second device that receives said notification of exceeding the first threshold value reduces the frequency with which write information is issued or the amount of write information that is issued to said target local memory or said target first processor.

Claim 13, Page 12, Line 21

a relay memory having one or more write information storage regions respectively corresponding to said one or more transmission sources or transmission destinations, and

Claim 13, Page 12, Line 23

temporarily stored in one or more of said write information storage regions of said relay memory

Claim 15, Page 16, Line 2

a relay memory having one or more write information storage regions  
respectively corresponding to said one or more transmission sources or transmission  
destinations, and

Claim 15, Page 16, Line 5

temporarily stored in one or more of said write information storage regions of said  
relay memory

Claim 17, Page 16 (Replace with the following)

The memory control device according to claim 15, wherein when the received write information is temporarily stored in a target write information storage region corresponding to the transmission source or transmission destination in the relay memory, if the amount of information accumulated in the target write information storage region exceeds the first threshold value, a notification of exceeding the first threshold value, which indicates that this threshold value has been exceeded, is transmitted to a specified second device, and the second device that has received this notification of exceeding the first threshold value has been exceeded reduces the frequency with which write information is issued or the amount of write information that is issued to said target local memory or said target first microprocessor.

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Claim 20, Page 19, Line 7

a relay memory having one or more write information storage regions  
respectively corresponding to said one or more transmission sources or transmission  
destinations, and

Claim 20, Page 19, Line 10

temporarily stored in one or more of said write information storage regions of said  
relay memory

Claim 21, Page 20, Line 5

a relay memory having one or more write information storage regions  
respectively corresponding to said one or more transmission sources or transmission  
destinations, and

Claim 21, Page 20, Line 8

temporarily stored in one or more of said write information storage regions of said  
relay memory

Claim 22, Page 20, Line 12

Wherein said relay device comprises a relay memory having one or more write  
information storage regions respectively corresponding to said one or more  
transmission sources or transmission destinations, and

Claim 22, Page 21, Line 1

temporarily stored in one or more of said write information storage regions of said relay memory

Claim 23, Page 21, Line 13

comprises a relay memory having one or more write information storage regions respectively corresponding to said one or more transmission sources or transmission destinations, and

Claim 23, Page 21, Line 15

temporarily stored in one or more of said write information storage regions of said relay memory

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2. The following is an examiner's statement of reasons for allowance: Careful examination of prior art revealed most pertinent art as cited in the non-final rejection. Examiner agrees with response to amendment that the given art did not have a relay which selectively performs an operation of said transfer after said write information is temporarily stored in relay memory or the operation without storing said write information in said relay memory. Selectively is interpreted by the examiner as making a decision whether to store or not to store. The interconnection of the reference buffers each write request. The prior art also does not disclose the relay device having one or more write information storage regions. Careful examination of prior art did not reveal such a relay device having storage corresponding to transmission sources or transmission destinations which allows to selectively store in memory or directly send write data.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Kravets whose telephone number is (571)272-2706. The examiner can normally be reached on Mon-Fri 8-430.

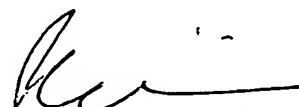
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim can be reached on (571)272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 20, 2006



Leonid Kravets  
Patent Examiner  
Art Unit 2189



BEHZAD JAMES PEIKARI  
PRIMARY EXAMINER